

Claims

1. A fuel supply pump having a tappet structural body which includes a roller and a tappet body portion which houses a roller, wherein

the roller is rotatably held by a roller receiver of the tappet body portion and the fuel supply pump includes a plate-like or a wire-like restricting means which restricts the movement of the roller in the rotary axis direction.

2. A fuel supply pump according to claim 1, wherein the plate-like restricting means is constituted by extending a portion of a peripheral portion of a spring seat in the direction toward the end portion of the roller.

3. A fuel supply pump according to claim 2, wherein the plate-like restricting means is inserted into an insertion hole formed in the tappet body portion and a gap is formed around the plate-like restricting means in the insertion hole.

4. A fuel supply pump according to claim 2 or 3, wherein the plate-like restricting means includes a bent portion for supporting and receiving the roller.

5. A fuel supply pump according to claim 1, wherein the wire-like restricting means is formed of a spring member and the spring member is wound around the tappet body portion.

6. A fuel supply pump according to claim 5, wherein a pawl portion is formed on both ends of the wire-like restricting

means and the pawl portion is engaged with the roller receiver of the tappet body portion.

7. A fuel supply pump according to any one of claims 1 to 6, wherein the roller includes a pin portion which constitutes the center of rotation of the roller and a roller portion which is a thick wall portion which is formed around the pin portion and is rotatable while being in a slide contact with a roller body and the pin portion and the roller portion are integrally formed.

8. A fuel supply pump according to any one of claims 1 to 7, wherein the fuel supply pump is applicable to a booster-type accumulator fuel injection device which pressurizes fuel having a flow rate per unit time of 500 to 1500 litter/hour to a value of 50MPa or more.

9. A tappet structural body which includes a roller and a tappet body portion which houses the roller, wherein the roller is rotatably held on a roller receiver of the tappet body portion and the tappet structural body includes a plate-like or wire-like restricting means which restricts the movement of the roller in the rotary axis direction.

10. A tappet structural body according to claim 9, wherein the roller includes a pin portion which constitutes the center of rotation of the roller and a roller portion which is a thick wall portion which is formed around the pin portion and is rotatable while being in a slide contact with a roller

body and the pin portion and the roller portion are integrally formed.